



HF Happenings

Volume 14, Issue 25

No 702

the week of 25 April 2016

IOTA Directory 2016

The 17th edition of the IOTA Directory, edited by Roger Balister, G3KMA, and Steve Telenius-Lowe, 9M6DX, is now available at the RSGB Shop. This 128-page book contains the complete, official listing of IOTA islands as well as everything you need to participate in IOTA. Also included are reports of rare and costly IOTA operation - S79C (Coetivy Island, AF-119), VYOM (Melville Island, NA-248) and ZL9A (Antipodes Island, OC-286).



www.rsgbshop.org/acatalog/Online_Catalogue_IOTA_42.html.

IOTA Honour Roll

The 2016 Honour Roll and Annual Listings have been posted on the IOTA website at www.rsgbiota.org/info/. 186 record-holders have scores of 1000 or more IOTA groups and 519 of at least 750 groups which is the number required for the IOTA Plaque. Amateurs from 100 countries now have the starter 100 Islands certificate. Congratulations to all who have joined the IOTA family or updated in the last year.

IOTA Ltd

Following agreement with the RSGB, management of the IOTA Programme has now moved to Islands on the Air (IOTA) Ltd, a new not-for-profit company, limited by guarantee in UK law. This body now has full responsibility for all aspects of the programme, its day-to-day management, strategy, policy, finance, development, promotion and marketing. The company has been registered in the names of Roger Balister, G3KMA and Stan Lee, G4XXI, who are its current directors but a full Board of Directors will be formed shortly.

The new IOTA Directory, published by the RSGB this month, refers to the newly set-up company under a different name but this has now been changed in the way always intended. It will take a little time to carry through all aspects of the changed governance but IOTA enthusiasts should be assured that the new company is fully committed to completing the paperless QSLing project that will allow electronic confirmation of contacts. No significant change of policy is otherwise envisaged. More information shortly".

IOTA Rule Changes

The new Directory introduces some fairly significant rule changes, made in the interests of simplification, which will take effect from 1 June 2016:

- a. The discontinuation of the issue of paper certificates.
- b. The discontinuation of giving credit for VHF/UHF contacts in the Standard Category of Application.
- c. Charges have been increased and the charging regime has been simplified.
- d. The threshold figure defining a "rare" IOTA group has been raised to cover those groups, which 20% (previously 15%) or fewer participants have credited to their scores.

Read the complete press release on www.rsgbiota.org.



South African Radio League * Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union since 1925



Intrepid Spirit Award

The Intrepid-DX Group, is pleased to announce that Yasuo "Zorro" Miyazawa, JH1AJT, is the recipient of the 4th annual Intrepid Spirit Award, made in memory of James McLaughlin, WA2EWE/T6AF (killed in Kabul Afghanistan on 27 April 2011). The award - presented at the International DX Convention (Visalia) on 16 April - is to recognize Zorro's outstanding efforts to activate rare and often difficult entities such as Eritrea, Myanmar and Bangladesh. www.intrepid-dx.com

SV/A, Mount Athos

For years Monk Apollo, SV2ASP/A, has been the only amateur radio operator from the Docheiariou Monastery. However, this past week news came out that Monk Iakovos, who lives in the Koutloumousiou Holy Monastery in Mt Athos, has received his radio amateur training from George, SV1RP, and then his SV2RSG license from the Ministry of Telecommunication in 2015. Reports indicate that Monk Iakovos has been on 40 meters (7 141 kHz) on SSB using an IC-735 into a vertical antenna. He does operate CW! QSL via SV1RP. Check out his QRZ.com page at www.qrz.com/db/sv2rsg

April

- 2 - RaDAR Challenge
- 5 - All schools open
- 7 - SARL 80 m QSO Party
- 9 - SARL Autumn QRP Contest
- 10 - SARL Youth Net at 15:00 UTC on 7 070
- 18 - World Amateur Radio Day
- 22 - Earth Day
- 23 - Pesach (1st day)
- 24 - ZS4 Sprint
- 25 - Closing date for May Radio ZS articles
- 27 - Freedom Day
- 30 - Pesach (8th Day)

May

- 1 - Worker's Day
- 2 - Public Holiday
- 5 - Ascension Day
- 7 and 8 - AWA Valve QSO Party
- 8 - Mother's Day; SARL Youth Net at 15:00 UTC on 7 070
- 12 - Radio Amateur Examination
- 15 - ZS3 Sprint
- 20 to 22 - Dayton Hamvention
- 23 - Closing date for June Radio ZS articles
- 25 - Africa Day
- 29 - SARL Digital Contest

Frustrated Funding, Breached Secrecy Foiled North Korea DXpedition, Group Leader Says

A co-leader of the recent VP8STI/VP8SGI Intrepid-DX Group DXpedition, this week said "a surprising lack of support and lack of funding from some of the world's paramount DX foundations" thwarted his group's plans to mount a DXpedition to North Korea.

In "The P5DX Story" posted on 25 April, Paul Ewing, N6PSE, said that years of negotiations had finally yielded a written invitation from the Democratic Peoples Republic of North Korea (DPRK), the most-needed DXCC entity, to operate there.

<https://n6pse.wordpress.com/2016/04/25/the-p5dx-story/>.

"We had hoped to be the first large DXpedition with clear and unambiguous proof that we were active within the country and with real evidence of permission," Ewing said in announcing the DXpedition's cancellation.

The Intrepid-DX Group announced its "P5 Project" in 2013. With the recent intervention of an unnamed "emissary," Ewing said, North Korea "agreed to a 10-day Amateur Radio activity with three radios and up to 20 team members." Officials insisted on no advance publicity and all involved were sworn to secrecy.

"Our last major hurdle was that the DPRK was asking for a very large fee to be paid for the permissions at various government levels and ministries to operate from within the DPRK," Ewing recounted. The size of the requested fee, Ewing said, prompted him to approach several



DEMOCRATIC PEOPLES REPUBLIC OF KOREA

large Amateur Radio foundations for financial help. "All of our fees would be paid directly to a China-based tour company and no direct exchange would take place with the North Koreans," Ewing pointed out. However, the group was rebuffed.

Ewing said he and co-leader David Collingham, K3LP, decided they had no other choice but to "drain our own personal retirement savings to provide the bulk of our funding." Money for various fees as well as equipment and airfare ran into the thousands of dollars.

Then, word of the DXpedition plans leaked out, igniting an Amateur Radio media fire-storm. A week before the team's planned departure, Ewing learned that the DPRK had denied him and Collingham permission to enter North Korea, leading to his decision to cancel the entire enterprise. "I could not devote a sizable chunk of my life savings for a project that I could no longer participate in," he explained. "The financial losses suffered by Intrepid-DX and all of our team members are substantial."

"This could have been a DXpedition for the record books," Ewing concluded. "But now we will never know."

In subsequent comments, Ewing said, "The DPRK stated that the visas were not approved because the two Americans had talked to the media in violation of the directive that there be no pre-event publicity. Of course, this was not true, but the damage was done."

Young Ham Wins First-Place Science Fair Trophy with Mag Loop Antenna Entry

A 10-year-old ARRL member from Snoqualmie, Washington, took first place in his grade and division for a magnetic loop antenna project he entered into the Washington State Science and Engineering Fair (WSSEF).

Dragan Tuip, KG7OQT, was among the more than 700 presenters at the fair, held on 1 and 2 April in Bremerton. A 5th grade student at Yellow Wood Academy in Mercer Island, his project, "Modular HF Mag Loop Antenna," stemmed from his desire for a compact antenna to use in his room with his HF transceiver - a flea market bargain.

According to his dad, Martin Tuip, KG7HAX, Dragan built the antenna himself and successfully tested it by making JT65 contacts with Japan and Georgia. The 59th annual WSSEF marked Dragan's science fair debut.

"When they called my name during the award ceremony, I was stunned! I was amazed!" he told ARRL. "I learned that not everything is always the best, and some things still have room for improvement. I had several people already ask me if they could buy the antenna." Licensed at age 8, Dragan wants to earn DXCC before he turns 11. He eventually hopes to market the antenna.

The magnetic loop design he entered into the science fair consists of a 10-foot circumference loop of LMR-400 coaxial cable with a 2-foot circumference loop of solid copper and a variable capacitor for tuning housed in a central enclosure. According to Dragan, the antenna is usable on 40, 30, 20, 17 and 15 metres with a low SWR. The antenna can handle up to about 10 W for 100 percent duty cycle modes, and up to 15 W PEP for SSB.

The need for an indoor antenna arose after his mom let it be known that she did not want any new holes drilled in the house or any more visible antennas. Dragan had seen some mag loop-style antennas in articles his dad had been reading and asked if something like that might fit in his room.



"I told him that that size would work and off he went to scavenge the house for parts to build a prototype," Martin Tuip said. "We had to order a capacitor for the prototype and he built further upon that." Dragan did all the calculations for the wire lengths involved, he said.

"He ran propagation tests using *WSPR* with my *G5RV* as reference and the mag loop was about 80 percent as effective at a fraction of the size," Martin Tuip said.

UBA release Ham Radio promotional video

The Royal Belgian Amateur Radio Union (UBA) have released a new promotional video - *Amateur Radio in Belgium* <https://youtu.be/fMKlQNcojV4>

Belgium Foundation get more power on HF

www.southgatearc.org/news/may2012/belgium_foundation_get_more_power_on_hf.htm

UBA in Google English <http://tinyurl.com/BelgiumUBA>

Swedish Amateur Radio promotional video

www.southgatearc.org/news/2016/march/swedish_ham_radio_promotional_video.htm

RSGB Amateur Radio promotional video

http://www.southgatearc.org/news/2015/october/new_ham_radio_promotional_video.htm

African DX

Africa DX Net - every Saturday afternoon from 14:00 UTC on 14,260 MHz hosted by Mike, V51MA, Leon, A25SL, and Tinus, ZS6MHK.

Burkina Faso, XT. Jusei, JA3IVU and Junichi, JH3AEF, will be active again as XT2IVU and XT2AEF from Ouagadougou, Burkina Faso from 27 April to 4 May. They will operate CW, SSB, RTTY and PSK31 on 80 to 6 metres. QSL via home calls, direct or bureau.

African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz



St Helena Island, ZD7. Subject to the airport final certification and operational readiness, Bill, GOVDE expects to go to St Helena Island (AF-022) on one of the first commercial flights. He plans to be active as ZD7VDE from 23 May to 5 June and to operate SSB, with some RTTY and PSK31 and maybe just "a little CW," on 40 to 10 metres. Log search and OQRS on Club Log. See www.sthelenadx.com for more information and updates.

Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 25 April to 2 May 2016

SKCC Sprint

00:00 - 02:00 UTC 27 April

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (none)

Exchange: RST, state, province or country, name and SKCC no or power
Work stations: Once per band
QSO Points: 1 point per QSO; Bonus Points: 5 points per Centurion member QSO per band; 10 points per Tribune member QSO per band; 25 points per QSO with SKCC club call (K9SKC) per band
Multipliers: Each state, province or country once
Score Calculation: Total score = (total QSO points x total mults) and bonus points
Submit logs by: 23:59 UTC 29 April 2016
E-mail log summary to: (none)
Post log summary at:
http://www.skccgroup.com/operating_activities/weekday_sprint/submit-display.php
Mail logs to: (none)
Find rules at:
http://www.skccgroup.com/operating_activities/weekday_sprint/

Phone Fray
02:30 - 03:00 UTC 27 April
Mode: SSB
Bands: 160, 80, 40, 20, 15 m
Classes: Single Op
Max power: 100 watts
Exchange: NA: Name and state, province or country; non-NA: Name
Work stations: Once per band
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 03:00 UTC 29 April 2016
E-mail logs to: (none)
Post log summary at:
<http://www.3830scores.com>
Mail logs to: (none)
Find rules at:
http://www.perluma.com/Phone_Fray_Contest_Rules.pdf

CWops Mini-CWT Test
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 27 April and 03:00 - 04:00 UTC 28 April
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Op - QRP, low or high
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts
Exchange: Member: Name and member no; non-Member: Name and state, province or country
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: Each call once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 04:00 UTC 30 April 2016
Post log summary at:
<http://www.3830scores.com>
Mail logs to: (none)
Find rules at:
<http://www.cwops.org/cwt.html>

UKEICC 80 m Contest
20:00 - 21:00 UTC 27 April
Mode: CW
Bands: 80 m Only
Classes: Single Op Connected (High/Low/QRP); Single Op Unconnected (High/Low/QRP)
Max power: HP: 1 500 watts; LP: 100 watts; QRP: 5 watts
Exchange: 4-Character grid square
QSO Points: 1 point per 500 km; multiply QSO points by 2 if low power station; multiply QSO points by 4 if QRP station
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 22:00 UTC 27 April 2016
E-mail logs to: (none)
Upload log at: <http://logs.ukeicc.com/cgi-bin/hfenter.pl>
Mail logs to: (none)
Find rules at: <http://www.ukeicc.com/which-contest/contest-rules/ukeicc-80-m-contests-rules>

NCCC RTTY Sprint
01:45 - 02:15 UTC 29 April

Mode: RTTY
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 1 May 2016
E-mail logs to: (none)
Post log summary at:
<http://www.3830scores.com/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rttyns.html>

NCCC Sprint
02:30 - 03:00 UTC 29 April
Mode: CW
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 1 May 2016
E-mail logs to: (none)
Post log summary at:
<http://www.3830scores.com/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rules.html>

Russian WW MultiMode Contest
12:00 UTC 30 April to 11:59 UTC 1 May
Mode: CW, SSB, RTTY, BPSK63
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Op All Band Single Mode - CW, SSB, RTTY or BPSK63
Single Op All Band - combinations of CW, SSB, RTTY and BPSK63; Single Op High Bands - combinations of CW, SSB, RTTY and BPSK63; Single Op Low Bands - combinations of CW, SSB, RTTY and BPSK63; Multi-Single - combinations of CW, SSB, RTTY and BPSK63; SWL
Exchange: UA: RST(Q) and 2-character oblast; non-UA: RST(Q) and QSO no
Work stations: Once per band per mode
QSO Points: 1 point per QSO with same country on 20, 15 and 10 m; 3 points per QSO with different country same continent on 20, 15 and 10 m; 5 points per QSO with

different continue on 20, 15 and 10 m; 2 points per QSO with same country on 160, 80 and 40 m; 6 points per QSO with different country same continent on 160, 80 and 40 m; 10 points per QSO with different continue on 160, 80 and 40 m
Multipliers: Each DXCC country once per mode per band; Each oblast once per mode per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 15 May 2016
E-mail logs to: rusww@rdrclub.ru
Upload log at:
http://ua9qcq.com/en/submit_log.php?lang=en
Mail logs to: (none)
Find rules at: <http://www.rdrclub.ru/news-radio/russian-ww-mm-contest/159-rus-ww-multimode-contest>

Florida QSO Party
16:00 UTC 30 April to 01:59 UTC 1 May and 12:00 - 21:59 UTC 1 May
Mode: CW, Phone
Bands: 40, 20, 15, 10 m
Classes: Single Op - CW, phone or mixed - QRP, low or high; Single Op Assisted - CW, phone or mixed - QRP, low or high; Multi-Single - CW, phone or mixed - QRP, low or high; Multi-Multi - CW, phone or mixed - QRP, low or high; Mobile Single Op - CW, phone or mixed - QRP, low or high; Mobile Single Op and Driver - CW, phone or mixed - QRP, low or high; School- CW, phone or mixed - QRP, low or high; SWL
Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts
Exchange: FL: RS(T) and county; W/VE: RS(T) and state or province; DX: RS(T) and DXCC prefix
Work stations: Once per band per mode per FL county
QSO Points: 1 point per phone QSO; 2 points per CW QSO
Multipliers: FL Stations: Each state, VE province/territory, DXCC country, maritime region once per mode; Non-FL: Each county once per mode
Power: High: x 1, Low: x 2, QRP: x 3

Score Calculation: Total score = total QSO points x total mults x power mult
Submit logs by: 15 May 2016
E-mail logs to: logs@floridagsoparty.org
Mail logs to: Florida QSO Party, c/o Ron Harps, K8NZ, 315 Ohio Rd., Lehigh Acres, FL 33936, USA
Find rules at:
<http://www.floridagsoparty.org/rules.html>

AGCW QRP/QRP Party
13:00 - 19:00 UTC 1 May
Mode: CW
Bands: 80, 40 m
Classes: 5 W (A); 20 W (B)
Exchange: RST, QSO No, "/" and Class ID (A / B)
Work stations: Once per band
QSO Points: 1 point per QSO with class B; 2 points per QSO with class A
Multipliers: DXCC countries once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 20 May 2016

E-mail logs to: grp-party@agcw.de
Mail logs to: Manager, Udo Witte, DJ4FV, Sandbreite 7, D-49134 Wallenhorst, Germany
Find rules at:
<http://www.agcw.org/index.php/en/contests-and-cw-activities/grp-grp-party>

RSGB 80 m Club Championship, SSB
19:00 - 20:30 UTC 2 May
Mode: SSB
Bands: 80 m Only
Classes: (none)
Exchange: RS and serial no
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: (see rules)
Submit logs by: 23:59 UTC 9 May 2016
Upload log at: <http://www.vhfcc.org/cgi-bin/hfenter.pl>
Mail logs to: (none)
Find rules at:
<http://www.rsgbcc.org/hf/rules/2016/r80mcc.shtml>

Next Week's Contests

ARS Spartan Sprint, 01:00 - 03:00 UTC 3 May
Phone Fray, 02:30 - 03:00 UTC 4 May
CWops Mini-CWT Test, 13:00 - 14:00 UTC, 19:00 - 20:00 UTC 4 May 03:00 - 04:00 UTC 5 May
MIE 33 Contest, 23:00 UTC 4 May to 03:00 UTC 5 May
NRAU 10 m Activity Contest, 17:00 - 18:00 UTC, (CW) 18:00 - 19:00 UTC, (SSB) 19:00 - 20:00 UTC, (FM) 20:00 - 21:00 UTC 5 May (Dig)
NCCC RTTY Sprint, 01:45 - 02:15 UTC 6 May
NCCC Sprint, 02:30 - 03:00 UTC 6 May
10-10 International Spring Contest, CW, 00:01 UTC 7 May to 23:59 UTC 8 May
F9AA Cup, PSK, 12:00 UTC 7 May to 12:00 UTC 8 May
ARI International DX Contest, 12:00 UTC 7 May to 11:59 UTC 8 May
SKCC Weekend Sprintathon, 12:00 UTC 7 May to 24:00 UTC 8 May
7th Call Area QSO Party, 13:00 UTC 7 May to 07:00 UTC 8 May
Indiana QSO Party, 15:00 UTC 7 May to 03:00 UTC 8 May
Delaware QSO Party, 17:00 UTC 7 May to 23:59 UTC 8 May
FISTS Spring Slow Speed Sprint, 17:00 UTC-21:00 UTC 7 May
New England QSO Party, 20:00 UTC 7 May to 05:00 UTC 8 May 13:00 - 24:00 UTC 8 May

VHF Happenings

ESA announce competition for radio amateurs

The European Space Agency (ESA) Education Office will give a prize to the first three radio amateurs to send a recorded signal from the AAUSAT4, E-st@r-II or OUFTI-1CubeSats, which are expected to launch Sunday 24 April at 21:02 UTC. The launch of the three CubeSats on a Russian Soyuz-STA Fregat-M rocket from Kourou in South America had been planned for Friday 22 April but was postponed due to poor weather.



Soon after being deployed into their final orbit, the CubeSats will begin transmitting signals to Earth that can be picked up by anyone with common amateur radio equipment. ESA challenges anyone to record the signal and send it to cubesats@esa.int and to the CubeSat team.

For each CubeSat, the first e-mail received for which the signal is confirmed to belong to the CubeSat will be awarded with the following prizes:

ESA Fly Your Satellite! Poster

ESA Education goodie bag

Scale 1:1 3D printed model of a CubeSat

Full details and frequency information are available at

http://www.esa.int/Education/CubeSats - Fly_Your_Satellite/Be_the_first_to_catch_a_signal_from_Fly_Your_Satellite!_from_space

D-STAR satellite to launch from Kourou

<https://amsat-uk.org/2016/04/05/d-star-satellite-to-launch-from-kourou/>

Three new CubeSats now in orbit

Signals have been received from the three CubeSats launched 25 April on Soyuz flight VS14 from the Kourou spaceport in South America.

The three CubeSats were developed by student teams under the European Space Agency (ESA) Education Office "Fly Your Satellite!" program, which is aimed at training the next generation of aerospace professionals. The satellites are OUFTI-1 from the Université of Liège, Belgium; e-st@r-II from the Polytechnic of Turin, Italy and AAUSAT-4, University of Aalborg, Denmark.

The signal from the e-st@r satellite 1200 bps beacon is very weak which may indicate an antenna deployment issue or unexpectedly low transmit power. ESA report the e-st@r team is working to consolidate the radio communication link with their satellite.

OUFTI-1 carries the first dedicated amateur D-Star satellite transponder
<https://amsat-uk.org/2016/04/05/d-star-satellite-to-launch-from-kourou/>

OUFTI-1 reports <http://www.dk3wn.info/p/?cat=321>

e-st@r reports <http://www.dk3wn.info/p/?cat=84>

AAUSAT-4 reports <http://www.dk3wn.info/p/?cat=8>

Read the ARRL story at <http://www.arrl.org/news/three-esa-fly-your-satellite-program-cubesats-now-in-orbit>

ESA Fly Your satellite! CubeSats phoned home www.esa.int/Education/CubeSats - Fly_Your_Satellite/Fly_Your_Satellite!_CubeSats_phoned_home

Contests this week

432 MHz Spring Sprint

19:00 - 23:00 local 27 April

Mode: (not specified)

Bands: 432 Only

Classes: Single Op; Rover

Exchange: 6-character grid square

QSO Points: 1 point per QSO

Multipliers: Each grid square

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 11 May 2016

E-mail logs to: kotoka2kqm@windstream.net

Post log summary at: <http://www.3830scores.com>

Mail logs to: Kent O'Dell, KA2KQM, 2752 Monument Road, Jasper, GA 30143, USA

Find rules at: <https://sites.google.com/site/springvhfupsprints/home/2016-information>

SBMS 2,3 GHz and Up Contest and Club Challenge

06:00 local 30 April to 23:59 local 1 May

Mode: Any

Bands: 2,3 GHz and up

Classes: (none)

Exchange: 6-character Maidenhead locator

Work stations: Once per location per band

QSO Points: Distance points (2,3 - 10 GHz): 1 point per km; Distance points (24 GHz): 3 points per km; Distance points (47 GHz and above): 6 points per km

QSO points: 100 points per QSO per band with a unique call

Multipliers: (none)

Score Calculation: Total score = total points

Submit logs by: 1 June 2016

E-mail logs to: bburns@mediacombb.net

Mail logs to: William A. Burns, WA6QYR, 247 Rebel Road, Ridgecrest, CA 93555, USA

Find rules at: <http://www.n6nb.com/sbmsrules.htm>

Next Week's Contests

Microwave Spring Sprint, 08:00 - 14:00 local 7 May

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter

You can now download your copy of HF Happenings from www.sarl.org.za/hf_happenings.asp.